Beam Tilt & TFC: Which z value for correction?

1. Standing plan: correct using barrel of innermost hit

qcd

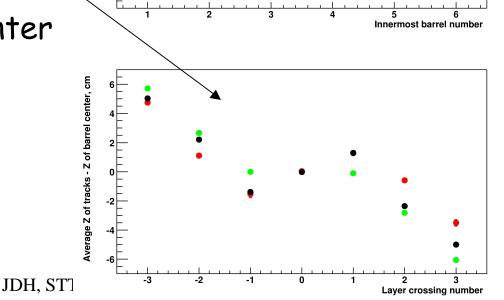
bs ds exclusive

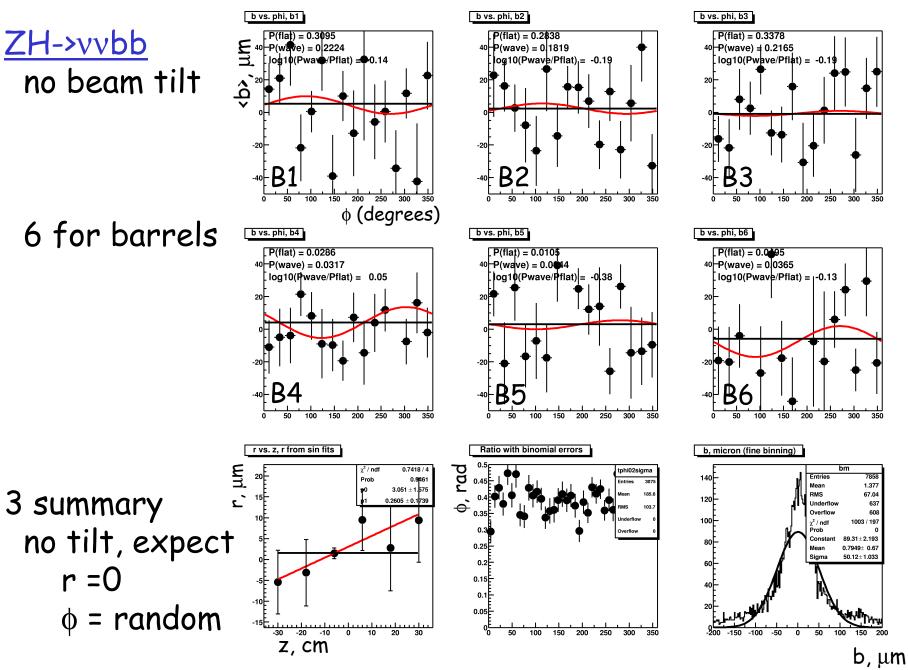
2. Alternate: also use barrel-crossing pattern

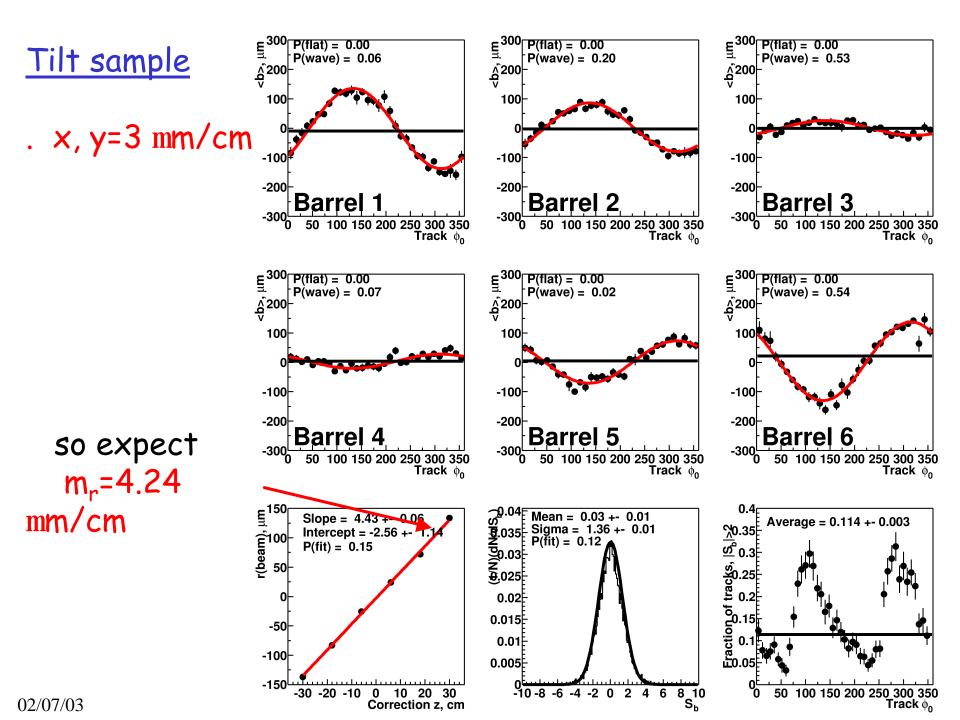


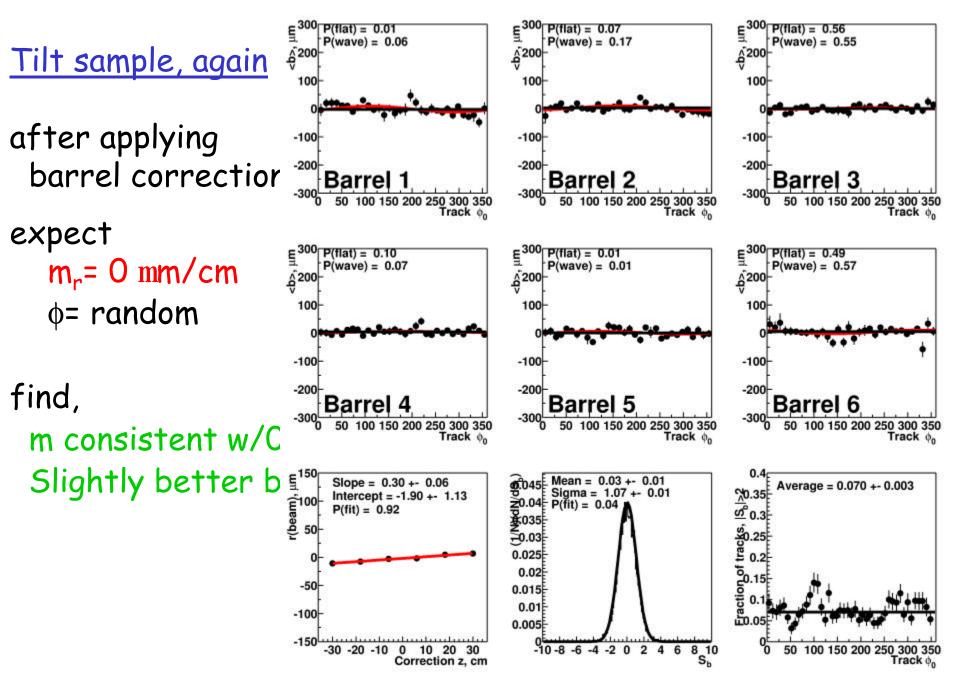
 $\delta z = \text{track} - \text{barrel center}$

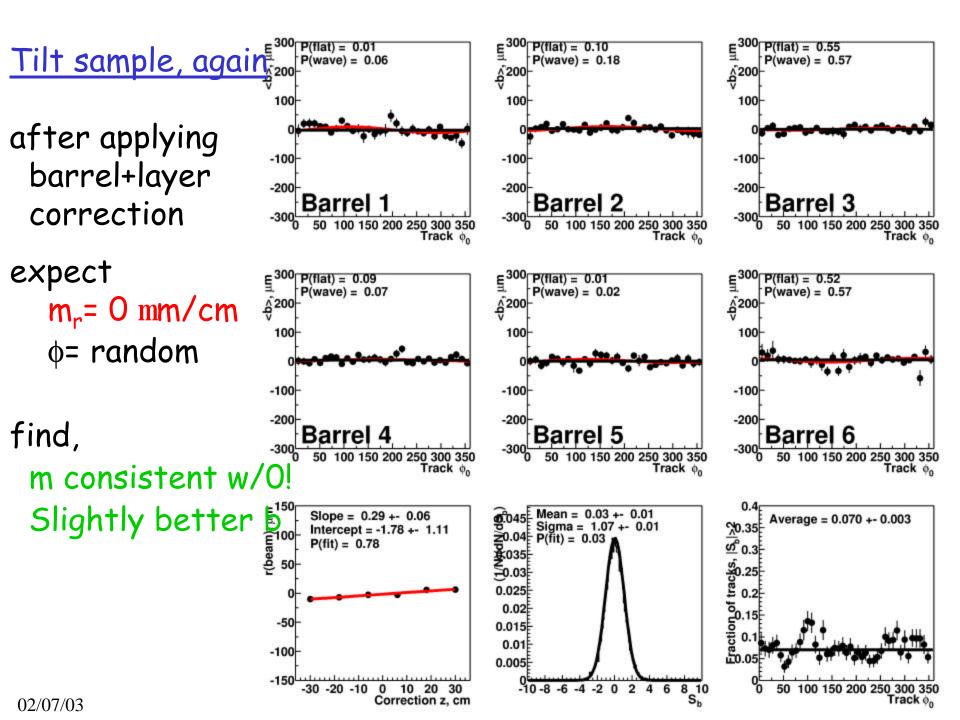
for both 1 and 2.











Conclusions

- either correction method alone beats none
- negligible differences between the two methods
 - similar fit probabilities for flatness
 - identical impact parameter widths
- barrel-only slightly better
 - slightly less physics dependence
 - simpler

So stick with barrel only correction...